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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/600,444		06/23/2003	Takeo Kagami	116329	7696	
25944	7590	12/13/2004		EXAMINER		
OLIFF & P.O. BOX		RIDGE, PLC	HEINZ, A	HEINZ, ALLEN J		
		VA 22320	ART UNIT	PAPER NUMBER		
٠			2653			
				DATE MAILED: 12/13/2004	DATE MAILED: 12/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)					
		10/600,444	KAGAMI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		A. J. HEINZ	2653					
Period fo	The MAILING DATE of this communication or Reply	appears on the cover sh	eet with the correspondence a	ddress				
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATION maintenance may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by serely received by the Office later than three months after the red patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, on. In a reply within the statutory minimumeriod will apply and will expire SIX (on the course of the course of the application to become on the course of the application to become	may a reply be timely filed of thirty (30) days will be considered time by MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).					
Status								
1)□	Responsive to communication(s) filed on _							
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)🖂	☑ Claim(s) <u>1-20</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
	Claim(s) <u>1-20</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[_]	Claim(s) are subject to restriction a	nd/or election requiremer	nt.					
Applicat	ion Papers							
-	The specification is objected to by the Exar							
10)⊠ The drawing(s) filed on <u>23 <i>June 2003</i></u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
البازا ا	The dath of declaration is objected to by the	e Examiner. Note the atta	ached Office Action or form P	10-152.				
Priority ι	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim for for ☑ All b) ☐ Some * c) ☐ None of: 1. ☑ Certified copies of the priority docun		.,,,,,,,,					
	Certified copies of the priority docum							
	3. Copies of the certified copies of the		• • • • • • • • • • • • • • • • • • • •	ıl Stage				
	application from the International Bu	•						
* 5	See the attached detailed Office action for a	a list of the certified copies	s not received.					
Attachmen	• •	_						
	ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948		view Summary (PTO-413) er No(s)/Mail Date					
3) X Infon	mation Disclosure Statement(s) (PTO-1449 or PTO/SE or No(s)/Mail Date 6/23/03.	3/08) 5) 🔲 Notic	ce of Informal Patent Application (PT	O-152)				

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1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The Title should provide a more detailed structural identification of the feature or features of the presently claimed invention which distinguish it from the prior art. The intended results produced by the structural differences can also be part of the content of the Title.

- 2. Pursuant to 37 CFR 1.75(g), applicant should attempt to organize the presentation of claims in an application with the least restrictive [broadest] claim(s) being presented earliest in the presentation of claims, and all dependent claims grouped together with the claim or claims from which they depend from, to the extent possible. Note, claims 8-20 are separated from the claims from which they depend.
- 3. Claims 5-7,17&18 are rejected under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The following phrases lack clear antecedent basis within the claims: "said predetermined material" (Cls.6&7)... the

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identification of the material used in the two different layers of the composite layer by the same phrase is confusing since they are distinctly different layers of different materials.

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An exhaustive search of indefinite and/or ambiguous language has not been attempted, but only exemplified in the preceding paragraphs. Therefore the applicant is responsible for a thorough review of all the claims to make corrections as appropriate.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. §102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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5. Claims 1-20 are rejected under 35 U.S.C. §102(e) as being anticipated by Sin.

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See Fig. 2. See col.5, line 61 thru col.6, line 10. Note, to the extent claimed, insulating layer 130 fabricated from at least two of the disclosed materials identified in claim 2 and is both in contact with the magneto-resistive layers of sense region 110 and is also exclusive of a biasing magnetic layer.

Re claim 5; composite layer of Sin is construed to be composed of seed layer 142 made from Cr with lower layer toward base being insulator 130 (supra).

Re claim 9; non-magnetic layer 160 substantially over-lies the magneto-resistive layers region 110.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hayakawa shows an insulating layer(31) in contact with a magneto-resistive layer and Shimazawa discloses multiple material configurations for layer 76.

7. For a complete response applicant should identify how the claimed structure of his invention defines over **all** the art of record.

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Moreover, where the applicant disagrees with the reasoning and/or application of the prior art on critical points of the claims, they should identify how the claimed structure of their invention defines over **all** the art of record not just the applied art.

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Where applicant believes that the art is redundant and/or superfluous relative to the critical aspects of the claimed invention the applicant may simply state so in rebuttal summary.

- 8. If applicant has filed an information disclosure statement prior to one month before the mailing date of this office action and this instant office action does not contain an initialed-off copy (or copies) of all such filed IDS's (or at least a comment to the disposition of such IDS'S in the body of the office action itself) applicant should apprise the examiner of such missing documentation [to the IDS's] in response to this office action so that the examiner can take appropriate action to supply same to the applicant.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. J. HEINZ whose telephone number is $(703)\ 308-1544$. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, WILLIAM KORZUCH can be reached on (703) 305-6137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. J. HEINZ Primary Examiner Art Unit 2653 Page 6

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